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### **Removal of Metal Pollutants (Cd (II) and Cr (III)) from Phosphoric Acid Solutions by Chelating Resins Containing Phosphonic or Diphosphonic Groups†**

N Kabay, M Demircio lu, H Ekinli, M Yüksel, ... - Ind. Eng. Chem. .... 1998 - ACS Publications  
 ... In **fertilizer** industry waste, Cr(VI) is found to be between 20 and 30 mg/L, and it has ... This resin also had a very high affinity for Fe(III) and Cr(III) in very **acidic** solutions (Horwitz ... groups has been employed for the columnar sorption of Cd(II) and Cr(III) from **phosphoric acid** solution. ...

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### **Water and materials recovery from fertilizer industry acidic effluents by membrane processes\***

AJ Karabelas, SG Yiantsios, Z Metaxiotou, N Andritsos, ... - Desalination, 2001 - Elsevier  
 ... It is considered necessary to add ions and is recycled into the **fertilizer** production a ... as ammoniumnitrate stream must include: a) cool is" with membranes resistant to **acidic** conditions. ... rejection of both ions, c) pretreatment by passing recycle it in **phosphoric acid** production, and ...

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### **Kinetic modelling of cadmium removal from phosphoric acid by non-dispersive solvent extract**

Al Alonso, AM Uriiaga, S Zamacona, A Irabien, I ... - Journal of Membrane ... 1997 - Elsevier  
 ... The stoichiometry of the reaction of cadmium extraction from **acidic** media by Cyanex 302 has been found to be ... [4] CA Hodge and NN Popovici (Eds.), Pollution Control in Phosphate **Fertilizer** Production, Marcel ... [5] Removing impurities to improve **phosphoric acid** quality: **acid** ...

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### **Colorimetric determination of phosphorus as molybdivanadophosphoric acid**

R Kison, M Mellon - Industrial & Engineering Chemistry ... 1944 - ACS Publications  
 ... should either be removed or inhibited to bring their concentrations within the limits set in Table I. Make the resulting solution just **acidic** to litmus ... **Phosphoric acid** obviously cannot be used to form the ferric phosphate complex. ... Determination of Potassium in **Fertilizer** Mixtures ...

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### **Comparison of liquid membrane processes for the removal of cadmium from wet phosphoric a**

AM Uriiaga, A Alonso, I Ortiz, JA Daoud, SA El- ... - Journal of Membrane ... 2000 - Elsevier  
 ... food production places the emphasis on developing effective and viable cadmium removal processes during the manufacture of **fertilizers**. ... characteristic of Cyanex 302 is the capacity to perform Cd(II) extraction from highly **acidic** media such as wet **phosphoric acid** (30% P ...

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### **[CITATION] Responses of acidic and neutralized lakes near Sudbury, Ontario, to nutrient enrich**

ND Yan, C Lafrance - Environmental impacts of smelters, 1984 - J. Wiley & Sons Inc.

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### **On the fractionation of natural radioactivity in the production of phosphoric acid by the wet aci method**

JP Bolívar, R García-Tenorio, M García- ... - ... of Radioanalytical and ... 1996 - akademai.com  
 ... I. Map of the estuary of the Tinto and Odiel rivers, where the **fertilizer** factories and the ... than one in the PG samples and clearly lower than one in **phosphoric acid** (dissolution), in ... These waters are very **acidic** (pH = 1.6-2), inducing the dissolution of some radionuclides contained ...

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### **Influence of lime, fertilizer and manure applications on soil organic matter content and soil phy: conditions: a review**

RJ Haynes, R Naidu - Nutrient Cycling in Agroecosystems, 1998 - Springer

... Phosphatic **fertilizers** and **phosphoric acid** can favour aggregation by the formation of Al or Ca phosphate binding agents whilst where **fertilizer**  $\text{NH}_4^+$  accumulates in ... Additions of **phosphoric acid** can increase aggregate stability where other phosphatic **fertilizers** have no effect. ...

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### **Recovery of uranium from wet-process phosphoric acid**

FJ Hurst, DJ Crouse, KB Brown - Industrial & Engineering Chemistry, 1972 - ACS Publications

... During the intervening years the phosphate **fertilizer** industry has grown rapidly, and the amount of  $\text{UO}_2$  dissolved in Florida's wet-process **phosphoric acid** has been estimated as presently approaching 2000 tons annually (Keilney, 1967). ...


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### **Determination of equivalent acidity and basicity of fertilizers**

WH Pierre - Industrial & Engineering Chemistry Analytical, 1933 - ACS Publications

... must be considered: Only one-third of the **phosphoric acid** should be considered 1. **acid-forming**. Since nitrogen in **fertilizers** is either in the nitrate form or in a form which is changed to nitrates through the process of nitrification, it should be considered an **acidic** element. ...

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Monocalcium phosphate - Wikipedia, the free encyclopedia

Triple **superphosphate** is a **fertilizer** produced by the action of concentrated **phosphoric acid** on ground phosphate rock.  $\text{Ca}_3(\text{PO}_4)_2(\text{s}) + 4 \text{H}_3\text{PO}_4(\text{aq}) \rightarrow 3 \text{Ca} \dots$   
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### Understanding Phosphorus Fertilizers

Fertilizers that use white **phosphoric acid** as the P source are generally more ...  
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 jection. **Superphosphate** is the chief material supplying **phosphoric acid** in **fertilizers**, and  
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### FERTILIZERS-TYPES OF FERTILIZERS-PHOSPHATIC FERTILIZER-SUPER ...

There are two important phosphoric **fertilizers**. **Super phosphate** ... Rock phosphate is  
 decomposed by **phosphoric acid** to produce triple phosphate. ...  
 www.citycollegiate.com/industry1.htm - Cached - Similar

### The Hidden Truth About Commercial Phosphate Fertilizers.

To make 0-46-0, rock phosphate is treated with **phosphoric acid**. With this, much higher  
 phosphate content, much higher N-P-K **fertilizer** formulas can be made. ...  
 www.malcolmbeck.com/.../phosphates-problemsandsolutions.htm - Cached

### superphosphate: Definition from Answers.com

Triple-**superphosphate** is made by using **phosphoric(V) acid** in place of sulphuric acid; ...  
 Impacts of **superphosphate fertilizer** to the environment? ...  
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### Types of fertilizer

The greatest advantage to be had of using **Superphosphate** as a **fertilizer** is that the  
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 phosphate (NH4H2PO4) is produced by reacting **phosphoric acid** (H3PO4) with ...  
 www.ecy.wa.gov/programs/air/pdfs/fertil3.pdf - Similar

### single super phosphate fertilizer - single super phosphate ...

16% Single **Super Phosphate fertilizer** 1, Valid P2O5:16.0% 2, Calcium:19-25% 3, Free  
**Phosphoric acid** 4.50% 4, Moisture 3.0%... Min. Order: 20 Metric Tons ...  
 www.alibaba.com/showroom/single\_super\_phosphate\_fertilizer.html - Cached

### Distribution of uranium in the production of triple superphosphate ...

by E. Erdem - 1995 - Cited by 6 - Related articles

Key words: phosphate rock, phosphogypsum, **phosphoric acid**, triple **superphosphate fertilizer**, uranium, uranium distribution. Abstract ...  
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